1971 · 1972

KZAP...

astrological calendar

WINTER SOLSTICE

SPRING EQUINOX

SUMMER SOLSTICE

FALL EQUINOX

GLYPHS FOR PLANETS..

☉	sun
☽	moon
☿	mercury
♀	venus
♂	mars
♃	saturn
♄	jupiter
♅	uranus
♆	neptune
♇	pluto
○	full moon
●	new moon

GLYPHS FOR HOUSES..

♈	aries
♉	taurus
♊	gemini
♋	cancer
♌	leo
♍	virgo
♎	libra
♏	scorpio
♐	sagittarius
♑	capricorn
♒	aquarius
♓	pisces

the best time to plant flowers & vegetables which bear crops above ground is during the waxing of the moon. for flowers & vegetables which bear crops underground is during the waning of the moon.

outdoor planting table (38° latitude)

underground flowers	frost tolerant	semi-hardy	underground flowers	frost tolerant	semi-hardy
beets (early)	3/15-4/5	3/12-20	leek	3/7-4/7	3/11-25
(late)	8/15-30	8/7-20	onion	3/1-31	3/11-25
carrots (L)	3/7-31	3/20-31	parsnip	3/7-31	3/11-24
(L)	7/7-30	7/225-30	potatoes	4/1-15	4/10-15
celery (L)	3/7-30	3/10-25	radishes (L)	3/7-31	3/11-21
(L)	8/15-9/7	8/15-10	(L)	9/7-30	9/7-10
endive (L)	4/7-9/15	4/10-25	turnips (L)	3/15-30	3/15-25
(L)	7/15-8/15	7/15-21	(L)	8/1-20	8/5-10

"in a hurry, plant leeks in wet weather garden"

above ground flowers	frost tolerant	semi-hardy
barley ☽	3/15-4/7	3/20-31
beans (L)	4/15-30	4/25-30
(L)	7/1-21	7/1-8
broccoli (L)	3/7-30	3/7-10
(L)	8/1-20	8/1-9
brussel sprouts	3/7-4/15	3/7-10
cabbage	3/7-4/15	3/7-10
cauliflower (L)	3/15-4/7	3/7-10
(L)	7/15-8/7	7/1-8
sweet corn	4/1-15	4/15-9
cucumber	4/7-5/15	4/7-9
egg plant	4/7-5/15	4/7-9
flowers, all	4/15-30	4/7-9
kale (L)	3/7-4/7	3/7-10
(L)	8/15-31	8/20-30
lettuce	3/1-31	3/7-10

above ground flowers	frost tolerant	semi-hardy
melon, musk	4/8-5/7	5/7-10
parsley	3/1-31	3/7-10
peas (L)	3/7-31	3/7-10
(L)	8/7-31	8/20-31
pepper	4/1-30	5/7-10
pumpkin	4/23-5/15	5/7-10
spinach (L)	3/15-4/22	3/7-10
(L)	8/1-9/15	8/7-9
squash	4/15-5/1	5/7-10
sweet chard	3/15-4/15	3/20-31
tomatoes	4/7-30	5/7-10
wheat, winter	9/15-10/20	9/20-30
spring	3/1-20	3/1-10

more favorable signs for growing above ground — ♈, ♉, ♋, ♌, ♑

household measures

120 drops water	= 1 tsp
60 drops thick fluid	= 1 tsp.
2 tsp.	= 1 dessertspoon
3 tsp.	= 1 tablespoon
16 tbsp.	= 1 cup
1 cup	= ½ pint
1 cup water	= ½ lb
5 tbsp. flour	= 1 oz.
2 tbsp. butter	= 1 oz.
3 tbsp. sugar	= ½ oz.
4 tsp. baking soda	= ¾ oz
2¾ c. white flour	= 1 lb
3½ c. whole wheat flour	= 1 lb
2¾ c. buckwheat flour	= 1 lb
4½ c. coffee	= 1 lb
2½ c. tea	= 1 lb
2 c. butter	= 1 lb
2 c. cornmeal	= 1 lb
2¾ c. brown sugar	= 1 lb
2¾ c. raisins	= 1 lb
2½ c. currants	= 1 lb

liquid measures

4 gills	= 1 pint
2 pts.	= 1 qt.
4 qts.	= 1 gal.
63 gals.	= 1 hogshead
2 hogsheads	= 1 butt
2 butts	= 1 ton

dry measure

2 pints	= 1 quart
4 quarts	= 1 gallon
2 gals.	= 1 peck
4 pecks	= 1 struck bushel

metric measure

1 inch	= 2.54 centimeters
1 meter	= 39.37 inches
1 yard	= 0.914 meters
1 mile	= 1609.344 meters
1609.344 meters	= 1 st kilometers
1 sq in.	= 6.45 sq cm.
1 sq yd.	= 0.84 sq m.
1 sq mile	= 2.59 sq km.
1 acre	= 0.40 hectares
1 cu. meter	= 1.31 cubic yds.
1 liter	= 1.06 U.S. liquid qts.
1 hectoliter	= 100 liters
100 liters	= 26.42 U.S. liquid gals.
1 U.S. liquid qt.	= 0.95 liters
1 U.S. liquid gal.	= 3.76 liters
1 metric ton	= 1,000 kilos
1 kg.	= 2.20 lbs.
1 lb. avoirdupois	= 0.45 kg.

square measure

1 sq. foot	= 144 sq. inches
1 sq. yard	= 9 sq. ft.
1 sq. rod	= 30¼ sq. yds. = 272¼ sq. ft.
1 acre	= 160 sq. rods = 43,560 sq. ft.
1 sq. mile	= 640 acres = 102,400 sq. rods
1 sq. rod	= 625 sq. links
1 sq. chain	= 16 sq. rods
1 acre	= 10 sq. chains

"a grain is better than a beam"

1 lb. = 16 oz.
1 hundred weight = 100 lbs.
1 ton = 20 hundred weight = 2,000 lbs.
1 long ton = 2240 lbs.

ROGER SHEPHERD · '71 · BIG DEAL FARM

Roger Shepherd